Contents

VOLUME 5, ISSUE NO. 1–4

Cell Biochemistry and Function

ISSUE No. 1 JANUARY 1987

Characterization and Use of Polyclonal Antibody to Na^+, K^+-ATPase: Immunocytochemical Localization in Salt Glands of the Duck, **J. J. Russo, J. L. Merchant, P. R. Eager and R. J. Barrnett** 1

Flow Cytometric Determination of Cell Cycle Phase-specific Changes in Cellular Phosphatase and Glycosidase Activities, **R. A. Britten and J. E. D. Dyson** 17

Differential Hemoglobin Synthesis in Murine Erythroleukemic Cells: Hemin Effects, **R. M. Zucker, M. E. Umlas, D. L. Decal and K. B. Whittington** 27

Calcium Transport from Blood into the Bile in Normal and Regenerating Rat Liver, **O. Bachs, M. Soriano, M. R. Piñol, J. Serratosa and C. Enrich** 37

Isolation and Characterization of Parenchymal Cells from Normal and Cirrhotic Rat Liver, **T. Zimmermann, H. Franke and R. Dargel** 47

Effect of *Escherichia coli* Lipopolysaccharide on the Microviscosity of Liver Plasma Membranes and Hepatocyte Suspensions and Monolayers, **M. T. Portolés, R. Pagani, I. Díaz-Laviada and A. M. Municio** 55

Growth Hormone Binding and Stimulation of Amino Acid Uptake in Epithelial Cells of Rat Ventral Prostrate, **J. C. Prieto and M. J. Carmena** 63

In vitro Measurement and Adaptive Response of Fe^{3+} Uptake by Mouse Intestine, **K. B. Raja, I. Bjarnason, R. J. Simpson and T. J. Peters** 69

Book Reviews 77

ISSUE No. 2 APRIL 1987

Synoptic Reviews: Pentose Phosphate Pathway (Part II)

The Biochemistry of Glucose-6-phosphate Dehydrogenase, 6-Phosphogluconate Dehydrogenase and Glutathione Reductase, **M. A. Rosemeyer** 79

6-Phosphogluconolactonase, **H. W. Hofer and H. P. Bauer** 97

Glucose 6-Phosphate Dehydrogenase: Genetic and Haematological Aspects, **L. Luzzatto** 101

Aerobic Glycolysis: A Study of Human Articular Cartilage, **A. M. Nahir** 109

Inhibition by Elastase Inhibitors of the Formyl Met Leu Phe-Induced Chemotaxis of Rat Polymorphonuclear Leukocytes, **W. Hornebeck, J. M. Soleilhac, J. M. Tixier, E. Moczar and L. Robert** 113

Relationship Between Melanin Content and Superoxide Dismutase (SOD) Activity in the Liver of Various Species of Animals, **G. Sichel, C. Corsaro, M. Scalia, S. Sciuto and E. Geremia** 123

Subcellular Calmodulin Distribution in Rat Liver After CCl_4 Poisoning, **G. Barrera, M. Parola, L. Paradisi, L. Albin and M. U. Dianzani** 129

Biochemical and Immunochemical Determination of $(Na^+ + K^+)$-ATPase Content in Subcellular Fractions Prepared from the Avian Salt Gland: Evidence for Enzyme Heterogeneity,, **J. S. Addis, W. D. Merrit, J. E. Mazurkiewicz and R. J. Barrnett** 135

Experimental Conditions Influence [^{3}H]-Dihydroalprenolol Binding Characteristics to Living HeLa Cells due to Morphological Changes: a Warning, **B. Rademaker, J. W. Stroes, A. Bast and H. Timmerman** 143

Inhibition of β-Adrenergic Stimulated Calcium Pump of Rat Cardiac Sarcoplasmic Reticulum by Tricyclohexyltin Hydroxide, **I. K. A. Sahib and D. Desaiah** 149

Correspondence 155

ISSUE No. 3 JULY 1987

Differentiation of Myeloid Cells in Liquid Culture: 2. Acute Myelocytic Leukemia Cells, **E. Archimbaud and H. D. Preisler** 157

Recovery of Human Erythrocytes from the Echinocyte Shape Induced by Added Choline–Phospholipids is Dependent on the Acyl Chain Length, **A. Tamura, T. Sato and T. Fujii** 167

Lipases Operative at the Fat Cell Surface: Attempt at an Integrated Approach, **A. Verine and J. Boyer** 175

Effect of Cytochalasin B on Glucose Uptake, Utilization, Oxidation and Insulinotropic Action in Tumoral Insulin–Producing Cells, **W. J. Malaisse, M.-H. Giroix and A. Sener** 183

Microtubular Protein Impairment by Pentanal and Hexanal, **A. Miglietta, L. Gabriel and E. Gadoni** 189

Immunohistochemical Localization of Albumin and In Situ Hybridization of Albumin MRNA, **K. R. Shroyer and P. K. Nakane** 195

Prolyl Hydroxylase Activity as an Index of Liver Damage Induced by Ethanol, **E. Bankowski, E. Pawlicka and K. J. Jodczyk** 211

Differential Time–Course of Induction of Rat Liver Gamma-Glutamyltransferase and Drug-Metabolizing Enzymes in the Endoplasmic Reticulum, Golgi and Plasma Membranes after a Single Phenobarbital Injection. Evaluation of Protein Variations by Two-Dimensional Electrophoresis, **B. Antoine, A. Rahimi-Pour, G. Siest, J. Magdalou and M. M. Galteau** 217

Book Reviews 233

ISSUE No. 4 OCTOBER 1987

The Preparative Isolation of Endosome Fractions: A Review, **B. M. Mullock, R. H. Hinton, J. V. Peppard, J. W. Slot and J. P. Luzio** 235

A Multiparameter Analysis of the Perfused Rat Heart: Responses to Ischemia, Uncouplers and Drugs, **J. Fuchs, G. Zimmer and J. Bereiter-Hahn** 245

$\Delta^5$3β Hydroxysteroid Dehydrogenase Activity of the Rat Corpus Luteum Exhibits Positive Substrate-Binding Co-operativity: A Continuous Monitoring Microdensitometric Study with Unfixed Ovarian Tissue Sections, **M. Gordon and W. R. Robertson** 255

A Critical Evaluation of the Use of Filipin-Permeabilized Rat Hepatocytes to Study Functions of the Endoplasmic Reticulum *In Situ*, **B. F. McEwen, J. N. Telford, C. T. Handelman and W. J. Arion** 263

Age-dependent Changes in Rat Liver Lipid Peroxidation and Glutathione Content Induced by Acute Ethanol Ingestion, **L. A. Videla, V. Fernandez and A. Velenzuela** 273

Initial Adhesion of Murine Fibroblasts to Collagen and Fibronectin Occurs by Two Mechanisms, **B. Bauvios and S. Roth** 281

Introduction and Metabolism of Pentose and Hexose Phosphates in Permeabilized Morris Hepatoma 5123TC Cells, **K. K. Arora and J. F. Williams** 289

Pyruvate Kinase Activity and Response to Allosteric Effectors in Rat Erythrocytes and Reticulocytes Fractionated by Multiple Partitioning in Aqueous Two-phase Systems, **M. Pinilla, P. Rodriguez-Horche and J. Luque** 301

Book Reviews 309